Patent claims

1. A white, biaxially oriented polyester film which has a base layer B which comprises a thermoplastic polyester, wherein the R value of the film is smaller than 43 daN/mm^2, the e_{max} ratio of the film is smaller than 2.5, and at least one of the two surfaces of the film has been provided with an acrylate-containing coating.

2. The polyester film as claimed in claim 1, wherein the R value of the film is smaller than 42 daN/mm^2, and the e_{max} ratio of the film is smaller than 2.2,

3. The polyester film as claimed in claim 1, wherein the base layer B comprises at least 80% by weight of the thermoplastic polyester, based on the total weight of the layer.

4. The polyester film as claimed in claim 1, wherein the polyester contains units of ethylene glycol and terephthalic acid, and/or units of ethylene glycol and naphthalene-2,6-dicarboxylic acid.

5. The polyester film as claimed in claim 1, wherein the polyester used in the base layer B comprises polyethylene terephthalate.

6. The polyester film as claimed in claim 1, which is a single-layer film.

7. The polyester film as claimed in claim 1, which has a symmetrical layer structure ABA or ACBCA, where C are the intermediate layers and A are the outer layers of the film.

8. The polyester film as claimed in claim 1, which comprises substantially only TiO_2 as white pigment or filler.

9. The polyester film as claimed in claim 1, wherein only the base layer B of the film has a white pigment or filler.

10. The polyester film as claimed in claim 1, which comprises more than 3% by weight, of white pigment, based on the total weight of the layer in which it is present.

11. The polyester film as claimed in claim 1, wherein the acrylate-containing coating comprises polymerized acrylic and/or methacrylic monomers and copolymerizable comonomers which are capable of developing intermolecular crosslinking.

12. The polyester film as claimed in claim 1, wherein the acrylate-containing coating is applied in the form of an aqueous dispersion to one or both surfaces of the film.

13. The polyester film as claimed in claim 1, whose overall thickness is from 10 to 120 µm.

14. The polyester film as claimed in claim 1, having a yellowness index smaller than 40.

15. A process for producing a polyester film as claimed in claim 1, encompassing the steps of

a) producing a single- or multilayer film by extrusion or coextrusion and shaping the melts to give flat melt films,

b) coating the film with an acrylate-containing coating,

c) biaxial stretching of the film, and

d) heat-setting of the stretched film.

16. The process as claimed in claim 15, wherein, to achieve the desired R value or e_{max} ratio of the film, the stretching temperatures are increased, and/or the stretching ratio, for longitudinal and/or transverse stretching, is reduced.

17. The process as claimed in claim 15, wherein the longitudinal stretching temperature is from 80 to 130°C, the transverse stretching temperature is from 80 to 135°C, the longitudinal stretching ratio is from 2.5 to 4.0, and the transverse stretching ratio is from 3.5 to 4.0.

18. A packaging film for foods and other consumable items formed from polyester film in accordance with claim 1.

19. Lidding film for cup-type containers formed from polyester film in accordance with claim 1.

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